

STAT

Table of Contents of USSR Book on Automatic, Continuous Action Centrifuges

V. I. Sokolov and D. Ye Shkoropad

Avtomaticheskkiye i Nepreryvnodetsuyushchiye Tsentrifugi, Mashgiz,
Moscow, 1954

STAT

STAT

TABLE OF CONTENTS OF USSR BOOK ON AUTOMATIC CONTINUOUS ACTIONCENTRIFUGES

Avtomaticheskkiye i Nepreryvnodeystvuyushchiye
Tsentrifugi, (Automatic and Continuous Action
Centrifuges), Mashgin, Moscow, 1954 . . . V.I. Sokolov ' D. Ya.
 Shkorpod

Introduction	Page	3
Chapter I. Centrifuge Processes		5
1. Centrifuge Process Characteristics		5
2. Mechanics of Centrifuge Hydraulic Processes		15
3. Hydrodynamics of Centrifuge Operation		23
Chapter II. Computation and Design of Automatic and Continuous Action Centrifuge Rotors		31
1. General Basis of the Mechanical Computation of Rotors		34
2. Determination of Boundary Stresses in Centrifuge Rotors		47
3. Analysis of the Stressed State of the Rotor and Selection of Design Parameters for the AOC Type Centrifuge Rotor		61
4. Order of Computation and Computation Formulas		80
5. Rotor Balancing		91
Chapter III. Automatic Centrifuges with Blade Removal of Sediment		102
1. Design Characteristics of Centrifuges with Blade Removal of Sediment		108
2. Design and Operating Principles of Main Centrifuge Bits		116
3. Characteristics of Calculation of Centrifuges Having Blades for the Removal of Sediment		150

TABLE OF CONTENTS OF USSR BOOK ON AUTOMATIC, CONTINUOUS ACTIONCENTRIFUGES

Avtomaticheskkiye i Nepreryvnodeystvuyushchiye
Tsentrifugi, (Automatic and Continuous Action
 Centrifuges), Mashgiz, Moscow, 1954

V.I. Skolov : B. Ye.
 Shkoropad

Introduction	Page	3
Chapter I. Centrifuge Processes		5
1. Centrifuge Process Characteristics		5
2. Mechanics of Centrifuge Hydraulic Processes		15
3. Hydrodynamics of Centrifuge Operation		23
Chapter II. Computation and Design of Automatic and Continuous Action Centrifuge Rotors		31
1. General Basis of the Mechanical Computation of Rotors		34
2. Determination of Boundary Stresses in Centrifuge Rotors		47
3. Analysis of the Stressed State of the Rotor and Selection of Design Parameters for the AGG Type Centrifuge Rotor		61
4. Order of Computation and Computation Formulas		80
5. Rotor Balancing		91
Chapter III. Automatic Centrifuges with Blade Removal of Sediment		102
1. Design Characteristics of Centrifuges with Blade Removal of Sediment		103
2. Design and Operating Principles of Main Centrifuge Units		116
3. Characteristics of Calculation of Centrifuges Having Blades for the Removal of Sediment		150